

INTERNATIONAL SEARCH REPORT

International Application No
PCT/FI2004/050086

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B65H19/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B65H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 860 391 A (VALMET CORP) 26 August 1998 (1998-08-26) column 5, line 1 - column 9, line 36; figures	1
A	US 6 382 550 B1 (AALTO ESA) 7 May 2002 (2002-05-07) the whole document	10
A	EP 0 658 504 A (VALMET PAPER MACHINERY INC) 21 June 1995 (1995-06-21) column 5, line 43 - column 7, line 32; figures 1-5	1, 10
A	EP 0 765 832 A (VALMET CORP) 2 April 1997 (1997-04-02)	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

6 October 2004

Date of mailing of the international search report

13/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Haaken, W

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FI2004/050086

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0860391 A	26-08-1998	FI 970610 A AT 234784 T CA 2229431 A1 CN 1190638 A , B DE 69812196 D1 DE 69812196 T2 EP 0860391 A1 JP 10218443 A US 5918830 A	14-08-1998 15-04-2003 13-08-1998 19-08-1998 24-04-2003 23-10-2003 26-08-1998 18-08-1998 06-07-1999
US 6382550 B1	07-05-2002	FI 974587 A AT 223346 T AU 1490299 A CA 2313143 A1 DE 69807755 D1 DE 69807755 T2 EP 1056665 A1 WO 9935070 A1 JP 2002500148 T	23-06-1999 15-09-2002 26-07-1999 15-07-1999 10-10-2002 30-04-2003 06-12-2000 15-07-1999 08-01-2002
EP 0658504 A	21-06-1995	FI 94231 B AT 164143 T CA 2136601 A1 DE 69409078 D1 DE 69409078 T2 EP 0658504 A2 JP 3545476 B2 JP 7206236 A US 5531396 A	28-04-1995 15-04-1998 17-06-1995 23-04-1998 06-08-1998 21-06-1995 21-07-2004 08-08-1995 02-07-1996
EP 0765832 A	02-04-1997	FI 954631 A AT 215046 T CA 2186811 A1 DE 69620089 D1 DE 69620089 T2 EP 0765832 A2 JP 9124198 A US 5782426 A	30-03-1997 15-04-2002 30-03-1997 02-05-2002 22-08-2002 02-04-1997 13-05-1997 21-07-1998